

# LUCY E DELANEY

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## INTERESTS

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Conceptual understanding of evolutionary principles, evolution-centered teaching, R for undergraduate education, macroevolution, the evolution of plant breeding systems, data manipulation & visualization with `tidyverse`

## EDUCATION

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**Ph.D candidate, Ecology & Evolutionary Biology** 2022  
University of Illinois at Chicago Chicago, IL  
Dissertation: *The Nature of Adaptation and the Epistemology of Natural Selection*

**M.A., Molecular & Cellular Biology** January 2016  
Hunter College of the City University of New York New York, NY

**B.S., Forensic Molecular Biology, Philosophy** May 2012  
John Jay College of the City University of New York New York, NY

## UNIVERSITY TEACHING

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**BIOS 220** Mendelian and Molecular Genetics Fall 2019 - Summer 2020  
Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online delivery. Responsible for teaching discussion section, creating digital course materials & exams, grading, and Blackboard administration.

**BIOS 331** General Ecology Laboratory Summer 2019  
Application of ecological and evolutionary concepts with hands-on experiments and field trips to local natural areas. Responsible for weekly laboratory instruction, office hours, and grading.

**BIOS 230** Ecology and Evolution Spring 2019  
Sophomore-level course with emphasis on basic ecological systems, ecosystem dynamics, and evolutionary principles. Responsible for weekly office hours, assignment creation, and grading.

**BIOS 430** Evolution Fall 2017 - Fall 2018  
Upper-division, programming-focused course on evolutionary theory and principles. Responsible for weekly office hours & debugging, quiz materials, and grading of R programming assignments.

**BIOS 120** Biology of Populations and Communities 2016-2017  
Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for weekly laboratory instruction, office hours, and grading.

## COMMUNITY TEACHING

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**Course Builder & Trainer** UIC Biological Sciences Department 2020-Present  
Trained in online instructional design & pedagogy, and software relevant to online teaching & learning. Assisting Biological Sciences Department faculty members in transitioning their courses online, and managing technical aspects of courses throughout online delivery.

**Tutor** Nurturing Wisdom Tutoring 2018-2020  
Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and high school entrance exams), science, mathematics, and writing.

**Substitute Teacher** Chicago-area Charter Schools 2015-2016  
Substitute teacher for elementary, middle, and high school classes.

## TEACHING HONORS AND AWARDS

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**2020** Nominated for the UIC Graduate Student Excellence in Teaching and Mentoring Award

**2020** Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 220

**2018** Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 430

## OTHER AWARDS AND TRAINING

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**2020** Participant in the [2020 Chicago R Collaborative Conference](#)

**2018** Recipient of the Biological Sciences Department Travel Award

**2018** Reviewer for International Journal of Botany, Oxford Bibliographies

**2017** Accepted to NSF-funded workshop on [Bayesian analysis of macroevolutionary mixtures](#)

**2017** Recipient of the Biological Sciences Department Travel Award

**2017** Accepted to [microMORPH Plant Anatomy Summer Course](#) at Harvard University

**2016** General horticulture volunteer at Garfield Park Conservatory

## PAST AND UPCOMING PRESENTATIONS

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### Flowering Plant Breeding Systems

**2017** test |  
test, test

test

### The Four Causes of Adaptation

**2021** Society for the Advancement of Biology Education Research West | Talk [View Slides](#)

**2021**, *forthcoming* Midwest Ecology and Evolution Conference | Talk

**2021**, *forthcoming* Undergraduate Biology Education Research GRS | Poster

**2021**, *forthcoming* Society for the Advancement of Biology Education Research | Talk

## PUBLICATIONS

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- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2021a). Breeding systems in the legumes: What do we know? *Manuscript in Prep.*
- Delaney, Lucy E**, Ramanauskas, K., & Igić, B. (2021b). Breeding systems in the orchids. *Manuscript in Prep.*
- Delaney, Lucy E**. (2012). Nietzsche, nerve stimulation-image connection, and ontology. *John Jay's Finest*, 27, 99–103.

## SKILLS

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<b>Languages</b>	Programming: R (proficient) Scripting: php, bash, zsh (novice) Document markup: L <sup>A</sup> T <sub>E</sub> X, HTML & CSS, Markdown
<b>Licenses</b>	Illinois Substitute Teaching, FCC Technician Class Radio
<b>Software</b>	Adobe Illustrator, Microsoft Office Suite

## PROFESSIONAL EXPERIENCE

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**Forensic Molecular Biologist** at NYC Office of Chief Medical Examiner 2012-2015  
Examined evidence for the presence of biological fluids, performed serological & DNA analysis techniques, analyzed data & performed statistical analyses, wrote reports, and provided expert scientific testimony in court.

**Health Research Intern** at NYC Department of Health 2011-2012  
Accepted to the Health Research Training Program for a year-long internship with the Bureau of Environmental Disease Prevention. Received training in disease epidemiology, emergency preparedness & response, public health and outreach programs in environmental disease control & prevention, and emerging viral infections.

**Field Manager & Administrative Assistant** at Working Families Party 2008-2011  
Responsible for payroll, managing employees' healthcare coverage, bank deposits, and data entry. Organized informational events for the public, and served as Field Manager for multiple election and fundraising campaigns.